Pulsara: A comprehensive ecosystem on top of Coreum

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Abstract

This whitepaper details Pulsara, a Decentralized Autonomous Organization on the Coreum Blockchain, focusing on its technical framework and architectural design. Central to Pulsara is the $SARA governance token, enabling stakeholder involvement in decision-making. The paper covers Pulsara's launch of an Automated Market Maker (AMM) Decentralized Exchange (DEX) and expansion into a broad range of blockchain services, including dedicated asset management for Fungible and Non-Fungible Tokens, a Coreum Orderbook-style DEX, a multi-signature enterprise platform, and the development of consumer and enterprise applications. Highlighting the Coreum Blockchain's speed, energy efficiency, and scalability, the whitepaper provides a technical and professional overview of Pulsara's approach to blockchain governance and asset management, including its use of Coreum's Smart Token technology.

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1 Introduction

1.1 Overview of Pulsara

Pulsara is an innovative project designed to harness the power of blockchain technology for decentralized governance and asset management. It operates as a Decentralized Autonomous Organization (DAO) on the Coreum Blockchain, a platform known for its speed, scalability, and energy efficiency. The central goal of Pulsara is to create a self-sustaining ecosystem where stakeholders can actively participate in governance and decision-making through the $SARA governance token.

1.2 Purpose of Pulsara

The primary purpose of Pulsara is to democratize the governance process within the blockchain space, allowing for a more inclusive and participatory model of decision-making. By leveraging the Coreum Blockchain's advanced features, Pulsara aims to establish a robust and secure infrastructure for various blockchain services, including an Automated Market Maker (AMM) Decentralized Exchange (DEX), asset management for Fungible Tokens, and a comprehensive suite of applications tailored for both consumer and enterprise use.

1.3 Significance in the Blockchain Ecosystem

Pulsara's significance in the blockchain ecosystem lies in its multifaceted approach to solving existing challenges in decentralized governance and asset management. It represents a significant leap forward in creating a more accessible, efficient, and user-friendly blockchain environment. The integration of Coreum's Smart Token technology within Pulsara's ecosystem enhances its accessibility and interaction potential, making it a pioneering project in the realm of decentralized finance (DeFi) and beyond.

Pulsara's commitment to providing a transparent, efficient, and scalable platform aligns with the growing need for reliable and sophisticated blockchain solutions in various sectors, including finance, supply chain management, and digital identity verification. Its emphasis on governance, security, and user empowerment sets a new standard for future blockchain projects, positioning Pulsara as a key player in

the evolution and adoption of blockchain technology and specifically in the Coreum Ecosystem.

By focusing on these areas, Pulsara aims to contribute significantly to the Coreum blockchain ecosystem, offering innovative solutions and a blueprint for future projects that seek to harness the benefits of decentralized technologies in a secure, efficient, and user-centric manner.

2   Background and Market Analysis

2.1   Current Market Overview

The blockchain industry, particularly the Decentralized Finance (DeFi) sector, is experiencing rapid growth and evolution. This expansion is driven by increasing demand for decentralized solutions that offer security, transparency, and autonomy, especially in financial transactions and asset management. Despite this growth, the market faces several challenges, including complex governance structures, limited scalability, and a lack of user-friendly interfaces for mainstream adoption.

2.2   Challenges in the Blockchain Space

2.2.1   Complex Governance

Many blockchain projects struggle with creating effective, decentralized governance models that are both inclusive and efficient. This often leads to centralized control points, undermining the fundamental principle of decentralization.

2.2.2   Scalability Issues

As blockchain networks grow, they often face scalability challenges, leading to slower transaction times and higher costs, which hinder widespread adoption.

2.2.3   User Accessibility

The complexity of blockchain technology can be a significant barrier to entry for the average user, limiting the potential for mainstream adoption.

2.2.4   Enterprise Integration

While blockchain offers substantial benefits for enterprises, integrating this technology into existing systems and processes remains challenging.

2.2.5   Tokenization Limitations

Tokenization is a burgeoning field in blockchain, but the lack of streamlined platforms for creating and managing tokens hampers its broader application and accessibility.

2.3   Pulsara's Role in Addressing These Challenges

Pulsara, as the first DAO on the Coreum Blockchain and the inaugural AMM DAX (Decentralized Autonomous Exchange), is uniquely positioned to address these market challenges:

2.3.1   Innovative Governance Model

As a pioneering DAO on Coreum, Pulsara introduces a novel governance framework that emphasizes inclusivity and efficiency, leveraging the $SARA token to empower stakeholders in decision-making.

2.3.2   Scalability and Efficiency

Utilizing Coreum's advanced blockchain infrastructure, Pulsara ensures high scalability and efficiency, paving the way for seamless transactions and broader adoption.

2.3.3   User-Friendly Interfaces

Pulsara focuses on developing intuitive interfaces and user-centric applications, making blockchain technology accessible to a wider audience and fostering mainstream adoption.

2.3.4   Enterprise Solutions

Through its multi-signature platform and enterprise-grade applications, Pulsara offers robust solutions for businesses looking to integrate blockchain technology seamlessly.

2.3.5   Mainstreaming Tokenization

Pulsara plays a crucial role in bringing Coreum's Smart Token technology to the public. As a gateway for buying, selling, and creating Smart Tokens, Pulsara significantly contributes to the mainstream adoption of tokenization.

2.4   Market Potential and Growth

The Coreum Blockchain is rapidly gaining momentum, securing numerous enterprise-level partnerships. This growth, coupled with the increasing popularity of DeFi applications, presents a fertile ground for Pulsara's expansion. By addressing key market challenges and leveraging the Coreum Blockchain's growth, Pulsara is well-positioned to capture a significant market share and become a central component of the Coreum ecosystem. The anticipation and demand from users for the unique components offered by Pulsara further bolster its potential for success and impact in the blockchain space.

3   Project Overview

3.1   Vision of Pulsara

Pulsara's vision is to pioneer a new era in blockchain governance and asset management. The project envisions a blockchain ecosystem where decentralization goes beyond the underlying technology to empower every participant with real decision-making capabilities. This vision is underpinned by the ambition to make blockchain technology not just accessible, but also practical and beneficial for a diverse range of users, from individual enthusiasts to large-scale enterprises.

3.2   Mission of Pulsara

The mission of Pulsara is to establish a decentralized and self-regulating platform that offers transparent, efficient, and scalable solutions within the blockchain domain. By leveraging the Coreum Blockchain, Pulsara aims to introduce innovative products and services that address existing challenges in decentralized finance (DeFi) and governance. The project is committed to fostering an environment where community engagement and stakeholder participation are not only encouraged but are integral to the ecosystem's evolution.

3.3 Core Values of Pulsara

3.3.1 Decentralization

At the heart of Pulsara's philosophy is a commitment to true decentralization, ensuring that power and decision-making are distributed among its community members.

3.3.2 Transparency

Pulsara values transparency in all its operations, from governance decisions to financial transactions, to build trust and accountability within its community.

3.3.3 Inclusivity

Embracing a wide range of stakeholders, Pulsara is designed to be accessible and beneficial for users with varying degrees of blockchain expertise.

3.3.4 Innovation

Pulsara is dedicated to continuous innovation, leveraging the latest advancements in blockchain technology to enhance its platform and services.

3.3.5 Security

Recognizing the critical importance of security in the blockchain space, Pulsara prioritizes robust security measures to protect its ecosystem and its users.

3.4 Technical Foundations for Success

Pulsara's potential for success lies in several key technical aspects:

3.4.1 Advanced Blockchain Infrastructure

Utilizing Coreum Blockchain's advanced features, including its scalability, speed, and efficiency, Pulsara is built on a solid and high-performing foundation.

3.4.2 Governance Token ($SARA)

The implementation of $SARA as a governance token is a crucial element, providing a tangible and functional way for stakeholders to participate in decision-making.

3.4.3   Comprehensive Ecosystem

Pulsara's ecosystem encompasses a wide range of services, including an AMM DAX, asset management systems for FTs,, and enterprise-grade applications, catering to diverse needs within the blockchain community.

3.4.4   Integration of Smart Token Technology

By integrating Coreum's Smart Token technology, Pulsara addresses the gap in tokenization, making it more accessible and streamlined for users.

3.4.5   Community-Driven Development

Pulsara's emphasis on community involvement ensures that the platform evolves in response to the real needs and feedback of its users, aligning development with user interests and market demands.

4   Technical Architecture

Pulsara, building upon a modified fork of Astro Port, offers a cutting-edge decentralized finance (DeFi) platform. This platform, primarily a result of Pulsara's innovation, is integrated seamlessly into the Coreum Blockchain's ecosystem.

Pulsara's Adaptation of Astro Port Technology
Pulsara's architecture is centered around a sophisticated Automated Market Maker (AMM) system, derived and enhanced from the foundational concepts of Astro Port.

4.1   AMM Pool Types

The platform supports various AMM pool types, each tailored to specific market needs and token characteristics. These include pools akin to Constant Product pools and Stableswap Invariant pools, catering to a wide range of asset classes.

4.1.1   Diverse AMM Pool Types in Pulsara

Pulsara's architecture incorporates a variety of Automated Market Maker (AMM)

pool types, each meticulously designed to cater to different market needs and token characteristics. This diversity in AMM pools is a cornerstone of Pulsara's functionality, offering flexibility and efficiency in asset exchange and liquidity provision.

4.1.2 Constant Product Pools

These pools are designed for the exchange of two different assets while maintaining a constant product of the reserves. They are ideal for a wide range of asset pairs, especially those without stable price relationships. The formula used in these pools ($x * y = k$, where x and y are the asset quantities, and k is a constant) ensures liquidity even in highly volatile markets, albeit with variable swap rates depending on the pool's state.

4.1.3 Stableswap Invariant Pools

Tailored for assets that are expected to have relatively stable price relationships, such as different stablecoins or wrapped tokens of the same underlying asset, these pools offer lower slippage and more efficient trades. The Stableswap model adjusts the traditional AMM formula to provide better pricing for stable pairs, making it highly suitable for large transactions of similar assets where price stability is a key factor.

4.2 Seamless Asset Exchange

Inspired by the thematic concept of a space station for asset exchange, Pulsara offers a decentralized, non-custodial platform for liquidity and price discovery, ensuring seamless trading experiences.

4.3 Governance Structure

Pulsara's governance structure is a fundamental aspect of its decentralized ethos, designed to ensure that the platform remains aligned with the interests and input of its community. This structure draws inspiration from proven models in the blockchain space, incorporating several layers of participation and decision-making processes.

4.3.1 Governance Token - $SARA

At the heart of Pulsara's governance model is the $SARA token. This token empowers holders with voting rights, allowing them to participate in key decisions regarding the platform's development, policy changes, and other critical matters. The amount of $SARA held by a participant determines their voting power, ensuring a direct correlation between stake in the platform and influence over its direction.

4.3.2 Proposal Mechanism

Token holders have the ability to propose changes or new features to the Pulsara platform. Proposals may cover a wide range of topics, from technical upgrades and protocol adjustments to broader strategic initiatives. To avoid spam and ensure seriousness, a proposal usually requires a minimum threshold of $SARA tokens to be submitted.

4.3.3 Voting Process

Once a proposal is submitted, it goes to a community vote. The voting process is transparent and executed on the blockchain, ensuring integrity and traceability. Votes are weighted according to the amount of $SARA tokens each participant has staked to the DAO, and a proposal is accepted or rejected based on predefined criteria such as quorum requirements and majority thresholds.

4.3.4 Decentralized Autonomous Organization (DAO)

The governance of Pulsara is structured as a DAO, an organizational form that is fully decentralized and governed by its members. This ensures that all decisions are made in a democratic manner, reflecting the collective will of the Pulsara community.

4.3.5 Staking

To incentivize governance participation, Pulsara deploys mechanisms for staking $SARA tokens. Staked tokens not only confer voting rights but might also earn rewards, aligning the long-term interests of token holders with the health of the platform. Users will also be the recipients of the periodic airdrops that are fueled by the trading fees of the platform.

4.3.6 Transparency and Accountability

The governance process in Pulsara is designed to be transparent and accountable.

All proposals, discussions, and voting results are publicly accessible, ensuring that the community can always monitor and audit governance activities.

4.3.7   Continuous Evolution

Recognizing that the needs of the platform and its community will evolve over time, the governance model of Pulsara is designed to be adaptable. It can be amended through the governance process itself, allowing for the organic evolution of the governance structure in response to new challenges and opportunities.

4.3.8   Community Engagement and Forums

Beyond formal voting, Pulsara encourages active community engagement through forums and discussion platforms. These spaces allow for open dialogue, debate, and collaborative ideation, fostering a strong sense of community and shared purpose.

4.4   Liquidity Incentives

Addressing the common challenge of dual liquidity mining, Pulsara implements mechanisms that allow liquidity providers to earn rewards in $SARA, while simultaneously farming other governance tokens.

Liquidity incentives are a critical component of Pulsara's ecosystem, designed to attract and retain liquidity providers (LPs) who are essential for the efficient functioning of its Automated Market Maker (AMM) system. These incentives not only reward users for supplying liquidity but also play a vital role in ensuring deep liquidity pools, which are crucial for minimizing slippage and maintaining a healthy trading environment. Pulsara's liquidity incentives encompass several key features:

4.4.1 $SARA Token Distribution

In addition to trading fees, Pulsara may distribute its governance token, $SARA, to liquidity providers. This distribution acts as an extra reward, incentivizing users to contribute liquidity by offering them a stake in the governance and future success of the platform.

4.4.2   Yield Vesting Opportunities

Pulsara offers yield vesting opportunities, allowing LPs to earn additional rewards by staking their liquidity provider tokens (representative of their share in the liquidity pools) in a vesting contract. This mechanism not only rewards LPs but also helps

in locking liquidity for longer periods, enhancing the stability of the platform.

4.5   Trading Fee Structure and Funding

The platform incorporates a well-structured trading fee system and funding mechanisms for assembly and governance activities.

4.6   Multi-Sig Account Management System

In the evolving landscape of blockchain technology, the need for enhanced security measures, particularly for transaction management, is paramount. Recognizing this, the Pulsara Ecosystem is set to introduce a robust Multi-Signature Account Management system, tailored to fortify the security and trustworthiness of transactions on the Coreum Blockchain.

The core idea behind the Multi-Signature Account Management system in Pulsara is to facilitate a joint account mechanism for projects with multiple directors or managers. This system allows several individuals to collectively manage the activities and funds of a single account, ensuring that critical actions require consensus or approval from multiple parties.

4.6.1   Multi-Key Authorization

The primary feature of the Multi-Signature Account interface is that it necessitates multiple private key signatures for the authorization of transactions. This adds a significant layer of security, as it mitigates the risks associated with single-point failures or unauthorized access.

4.6.2   Tailored for Enterprises

This feature is particularly vital for enterprise adoption on Coreum, as it aligns with the governance and operational protocols of businesses, where decision-making is often a collective process.

Increased Trust and Reliability: By implementing Multi-Signature Accounts, Pulsara aims to instil a higher degree of confidence among its users. This is crucial for enterprises and projects that handle significant transaction volumes or manage substantial digital assets.

4.6.3 User-Centric Design

The design of the Multi-Signature Account interface in Pulsara will be user-centric, focusing on ease of use without compromising security. It ensures that while the process involves multiple steps of verification, it remains intuitive and seamless for the users.

4.6.4 Integration with Coreum Blockchain

The Multi-Signature Account Management system is tailored to integrate seamlessly with the Coreum Blockchain's infrastructure, leveraging its inherent security features and scalability.

5 Decentralized Autonomous Exchange (DAX)

The Pulsara ecosystem features a key component, the Decentralized Autonomous Exchange (DAX), a platform that redefines asset exchange in the decentralized finance (DeFi) landscape. Operating entirely under the governance of the Pulsara DAO, the DAX represents a fusion of decentralized governance with advanced trading functionalities.
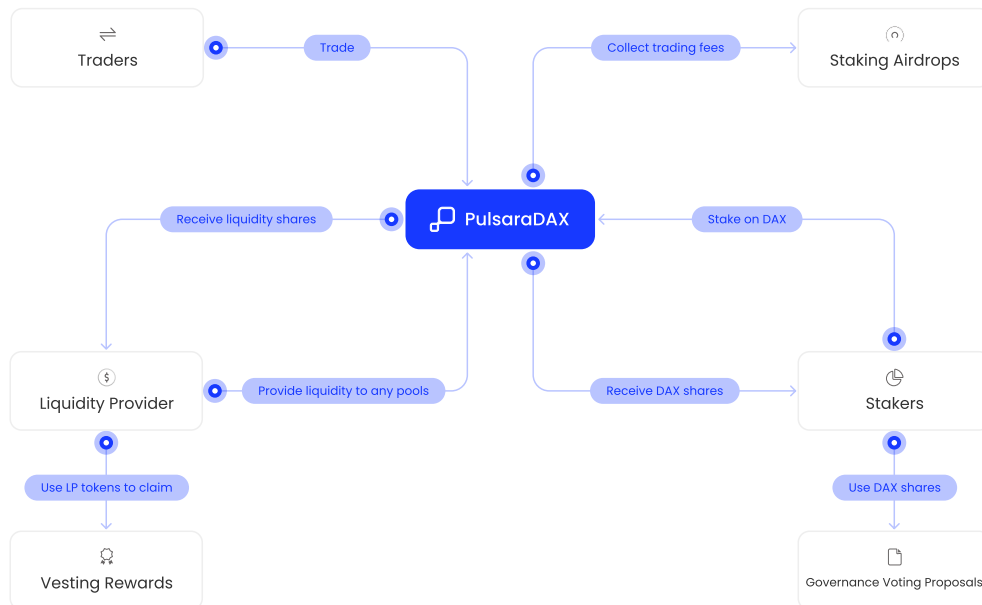
5.1   Governance by DAO

5.1.1   Community-Driven Operations

The DAX operates under the governance of the Pulsara DAO, ensuring that all decisions, from fee structures to protocol updates, are made democratically by the community of $SARA token holders. This model promotes transparency and aligns the DAX's development with the community's best interests.

5.1.2   Proposal and Voting System

Changes to the DAX, including the introduction of new features or adjustments in existing protocols, are proposed and voted upon by the community, fostering a responsive and adaptable exchange environment.

5.2   Trading and Liquidity Pools

5.2.1   Diverse Trading Options

Users on the DAX can trade across a variety of asset pairs. The exchange supports multiple pool types, catering to different asset characteristics and trading preferences.

5.2.2   Liquidity Provision and Rewards

Users can add liquidity to the pools of their choice, contributing to the market depth and stability. In return, they earn yields and rewards, typically in the form of $SARA tokens, incentivizing their participation and support of the ecosystem.

5.2.3   Custom Pool Creation

The DAX empowers users to create proposals for new liquidity pools. This feature is particularly beneficial for emerging tokens or specific trading pairs that are not widely available, allowing users to address niche markets and opportunities within the DeFi space.

5.3 Benefits and Features

5.3.1 Decentralized and Secure Trading

By leveraging blockchain technology, the DAX offers a secure and transparent trading environment, free from the control of any central authority.

5.3.2 User-Centric Design

The platform is designed with a focus on user experience, offering an intuitive interface that caters to both experienced traders and newcomers to the DeFi space.

5.3 .3 Innovative Financial Instruments

The DAX enables sophisticated trading strategies and financial instruments, such as yield farming and staking, providing users with diverse opportunities to engage with the DeFi ecosystem.

6 Tokenomics

Logo	
Token Subunit	usara
Token Symbol	SARA
Issuer Address	TO BE DEFINED
Initial Supply	1,000,000,000 SARA
Precision	6 decimal digits of precision

Features	Minting, Burning, and IBC
Burn Rate	0
Commission Rate	0

6.1   Initial Token Allocation

6.1.1   Airdrop (40%)

40% is going to be distributed to the Coreum Community.

There is going to be a series of 4 snapshots, in the span of 12 months, the resulting calculation will be distributed in the first week after each snapshot.

Protective measures have been put in place to prevent receivers from dumping and have a negative effect on the holders who believe in the project and want the best for it.

Fairness measures

At the moment of distribution of the second, third and fourth snapshots the Pulsara team will evaluate the balances of the $COREUM and $SARA tokens of each account. If the balance of either of these tokens drops more than 10%, the account will be immediately ignored for the distribution. These forfeited tokens will be added to the DAX treasury.

We understand that maybe your balances could be Staked in the DAX or as liquidity on a pair, the team will consider those balances, henceforth the users interacting with the DAX are not affected by these measures.

6.1.2   DAX Treasury (20%)

20% will be sent to the DAX treasury, and any usage of this balance will be decided by the DAX Members; through proposals.

The Pulsara Team will also create proposals that we believe will be in the best interest of the DAX, but ultimately the decision will be taken by the DAX Members.

6.1.3   Liquidity Provision Rewards (10%)

10% is to fund the Rewards Pool for the Liquidity Providers. For each block that is validated on the Coreum Blockchain, a certain amount of $SARA tokens will be allocated to the Registered Pools.

These pools, the reward rate, and the percentage of rewards each Pair earns can also be decided and modified by the DAX Members. The DAX Members can create proposals to mint more $SARA and fund this Reward Pool.

6.1.4   Pulsara Team and Investors (30%)

The last 30% of the initial supply of the $SARA token will be distributed to the Pulsara Team and investors.

7   Product Roadmap

7.1   Key Milestones and Technical Developments

Q1 2024

- **DAO & DAX Security Audit**: Pulsara's Smart Contracts audit to be finalized.

- **DAO Launch**: In the first quarter of 2024, Pulsara will launch its Decentralized Autonomous Organization, establishing a governance framework for token holders.

- **DAX Launch**: The Decentralized Autonomous Exchange (DAX) will go live, enabling automated trading and liquidity provision on the Coreum Blockchain.

- **Token Management System Implementation**: Introduction of the token management system, allowing for efficient handling of fungible tokens within the Pulsara ecosystem.

- **First Snapshot (January 19, 2024, 19:00 UTC)**: This initial snapshot will capture the state of token holdings for the upcoming airdrop.

- **First Airdrop Distribution (January 24, 2024, 19:00 UTC)**: Distribution of the first airdrop to eligible participants as per the snapshot data.

Q2 2024

- **MultiSig Account Feature Rollout**: Implementation of Multi-Signature (MultiSig) accounts, enhancing security for enterprise-level transactions and wallet management.

- **Exchange Listings**: Engage and negotiate listing of the $SARA token across multiple Decentralized and Centralized exchanges for better community participation and awareness.

- **Second Snapshot (April 18, 2024, 19:00 UTC)**: A crucial date for the community, as the second snapshot of token holdings is taken.

- **Second Airdrop Distribution (April 25, 2024, 19:00 UTC)**: The second airdrop will be distributed, following the April snapshot.

Q3 2024

- **Third Snapshot (July 17, 2024, 19:00 UTC)**: Another snapshot will be taken to determine eligibility for the third airdrop.

- **Third Airdrop Distribution (July 24, 2024, 19:00 UTC)**: Tokens from the third airdrop will be distributed to holders as per the July snapshot.

Q4 2024

- **Fourth Snapshot (October 15, 2024, 19:00 UTC)**: The final snapshot of the year, capturing token holdings for the last airdrop of 2024.

- **Fourth Airdrop Distribution (October 24, 2024, 19:00 UTC)**: The fourth and last airdrop of 2024 will be distributed to eligible stakeholders.

8   Security Measures

The security infrastructure of Pulsara is a critical aspect of its design and operational framework. Given the complexities and evolving threats within the blockchain space, Pulsara employs a multifaceted approach to security, encompassing rigorous protocols, risk management strategies, and continuous monitoring measures to ensure the integrity and safety of its ecosystem.

8.1   Auditing and Code Review

8.1.1   External Audits

Pulsara's codebase, being a fork of the well-established Astroport, inherits a strong foundation in security. However, to further ensure robustness and reliability, Pulsara undergoes thorough auditing by a reputable firm within the blockchain industry. This audit covers all aspects of the platform, including smart contracts, the governance model, and transaction protocols.

8.1.2   Continuous Security Assessments

Beyond the initial audit, Pulsara is committed to regular security reviews and audits. This ongoing process helps in identifying and addressing any vulnerabilities that may arise due to changes in the platform or emerging threats in the blockchain landscape.

8.2   DAO-Managed Treasury

8.2.1   Community-Controlled Treasury

The Pulsara treasury, which holds the platform's funds, is entirely governed by the DAO. This means any transactions or disbursements from the treasury require a community vote. Such a mechanism ensures transparency and collective decision-making in the management of funds.

8.2.2 Secure Voting Mechanism

The voting process for treasury management is secured through blockchain technology, ensuring that only $SARA token holders can participate and that each vote is accurately recorded and immutable.

8.2.3 Coreum's Smart Tokens

Pulsara leverages Coreum's Smart Tokens, which are natively issued on the Coreum Blockchain. These tokens bring an added layer of security due to their on-chain issuance and the inherent security features of the Coreum Blockchain.

Audited Smart Token Code: The underlying code for the Coreum Smart Tokens has undergone thorough auditing, ensuring that the token mechanics are secure and free from vulnerabilities.

8.3 Risk Management Strategies

8.3.1 Real-Time Monitoring

Pulsara implements real-time monitoring systems to continuously track the platform's operations. This includes monitoring transactions, smart contract interactions, and unusual activities that could indicate a security threat.

8.3.2 Incident Response Plan

In the event of a security breach or other critical incidents, Pulsara has a structured incident response plan in place. This plan outlines the steps for quickly addressing security breaches, minimizing potential damage, and restoring normal operations.

8.4 User Security Education

8.4.1 Community Education and Awareness

Recognizing that user behaviour can significantly impact security, Pulsara invests in educating its community. This includes providing best practices for wallet security, safe trading practices, and awareness about common threats in the DeFi space.

9 Use Cases

The Pulsara ecosystem offers a range of applications that cater to both individual users and enterprises. These use cases demonstrate the practicality and versatility of the platform in addressing real-world needs in the realm of decentralized finance and blockchain governance.

9.1 Decentralized Trading and Asset Management

9.1.1 For Individual Users

Investors and traders can leverage Pulsara's DAX for trading a variety of digital assets. The platform's diverse AMM pool types enable users to trade efficiently, minimizing slippage and enjoying improved price discovery.

9.1.2 For Enterprises

Companies can manage their digital assets, utilizing Pulsara's token management system. This allows them to issue, transfer, and manage their tokenized assets securely on the blockchain.

9.2 Community-Governed Treasury Management

9.2.1 DAO Participation

Token holders can participate in the governance of Pulsara's treasury. This includes voting on budget allocations, funding for projects, and other financial decisions, ensuring a democratic and transparent approach to resource management.

9.3 Secure Multi-Signature Transactions

9.3.1 For Enterprises

Businesses can use Pulsara's MultiSig account features for enhanced security in

their transactions. This is particularly useful for corporate governance, where multiple signatures are required for transaction validation, providing an additional layer of security and accountability.

9.4 Customizable Liquidity Provision

9.4.1 Liquidity Providers

Users can contribute to liquidity pools tailored to specific market needs, earning $SARA rewards. This allows them to support the ecosystem while benefiting from their investment.

9.5 Development of Decentralized Applications (DApps)

9.5.1 For Developers

Utilizing Pulsara's Coreum.js SDK, developers can build and deploy DApps on the Coreum Blockchain. This opens up opportunities for creating a wide range of applications, from DeFi tools to NFT marketplaces, leveraging Pulsara's secure and efficient infrastructure.

9.6 Participatory Governance

9.6.1 Community Engagement

$SARA token holders can propose changes, vote on upgrades, and participate in shaping the platform's roadmap. This empowers users to directly influence the platform's development, aligning Pulsara's evolution with the community's interests.

10   Team and Partnerships

Alberto Robles, the founder of Pulsara, is a seasoned professional in the crypto industry with a rich background in software engineering and the better part of a decade of software engineering experience. His focus is primarily on Decentralized Finance (DeFi) accumulating extensive experience in these sectors.

Alberto's entrepreneurial zeal, coupled with his strong advocacy for the Coreum Blockchain, laid the foundation for Pulsara. His vision for the project is deeply rooted in his commitment to decentralization and blockchain technology. His leadership in Pulsara is not only a reflection of his expertise but also his dedication to fostering the adoption of decentralized solutions in the digital world.

10.1   Development Team

The development team at Pulsara comprises a group of highly skilled and experienced developers, each bringing a wealth of knowledge from various sectors within the blockchain industry. This team is the driving force behind Pulsara's technical innovations and operational excellence. Their collective expertise spans across critical areas of blockchain technology, including smart contract development, system architecture, and DeFi applications. This depth of experience ensures that Pulsara remains at the forefront of technological advancements in the blockchain space.

10.2   Advisors

Pulsara's advisory board includes notable figures from the XRP Ledger (XRPL) Community and the Coreum Community. These advisors bring diverse perspectives and insights, contributing significantly to the strategic direction of the project. Their expertise in blockchain technology, community engagement, and market dynamics plays a pivotal role in guiding Pulsara's development and growth.

10.3   Backers

Pulsara is incubated by CoreNest Capital, a firm known for its support and investment in promising blockchain ventures. CoreNest Capital's involvement provides Pulsara with not just financial backing but also strategic guidance, industry connections, and operational support. This partnership is instrumental in accelerating Pulsara's growth and enhancing its capacity to deliver innovative solutions within the blockchain ecosystem.

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